--17. (new) The method according to claim 16, wherein said nucleotide sequence comprises SEQ ID NO. 1.

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--18. (new) The method according to claim 16, wherein said nucleotide sequence is from a *saccharomyces cerevisiae* ARE1 gene.

--19. (new) A nucleotide sequence encoding for an enzyme that catalyzes the transfer of a fatty acid from acyl-CoA to diacylglycerol for the production of triacylglycerol (TAG), wherein said nucleotide sequence is derived from SEQ. ID NO. 1 or *saccharomyces cerevisiae* ARE1 gene.

--20. (new) The nucleotide sequence according to claim 19, wherein said nucleotide sequence encodes for enzyme having an amino acid sequence comprising SEQ ID No. 2.

--21. (new) A transgenic plant, comprising a plasmid or genome containing the nucleotide sequence according to claim 19, wherein said nucleotide sequence is transferred by recombinant DNA technology.

--22. (new) The transgenic plant according to claim 21, wherein said plant is an oil seed crop.

--23. (new) The transgenic plant according to claim 23, wherein said plant is selected from agricultural plants.

--24. (new) The transgenic plant according to claim 23, wherein said nucleotide sequence is expressed under the control of a storage organ specific promoter.

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--25. (new) The transgenic organism according to claim 24, wherein said nucleotide sequence is expressed under control of a seed-specific promoter.

--26. (new) A method for increasing the oil content of an oil-producing organism, comprising:

transforming said organism selected from the group consisting of *Arabidopsis* and yeast with a nucleotide sequence comprising SEQ. ID NO. 1 or ARE1 gene so that said organism expresses an enzyme and catalyzes the transfer of a fatty acid from acyl-CoA to diacylglycerol for the production of triacylglycerol (TAG), said enzyme comprising an amino acid sequence of SEQ ID No. 2.—

--27. (new) A method for increasing the oil content of an oil-producing plant, comprising:

transforming said plant with a nucleotide sequence comprising SEQ. ID NO. 1 or ARE1 gene so that said organism expresses an enzyme and catalyzes the transfer of a fatty acid from acyl-CoA to diacylglycerol for the production of triacylglycerol (TAG), said enzyme comprising an amino acid sequence of SEQ ID No. 2.--

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Charge the fee of $84 for the one independent claim in excess of three added herewith to deposit account No. 25-0120.